

ABSTRACT OF THE DISCLOSURE

The present invention relates to a process for learning a basic finite automaton of a protocol implementation, which process is characterized by the following steps: a) categorizing the times (1, 2, 3) within an example communication into equivalence classes and b) using said equivalence classes as states of the learned automaton. The invention further relates to a process for learning arithmetic classification rules for feature vectors from a training set of positive examples, which process is characterized by the following steps: a) forming derived features ($y - v$; $x - z$), based on statistical measures, in the form of arithmetic terms ; b) formulating logic conditions ($x = w + 1$, $y = v + 1$, $z = x$) on the numerical values of the features from the training set or the derived features.

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